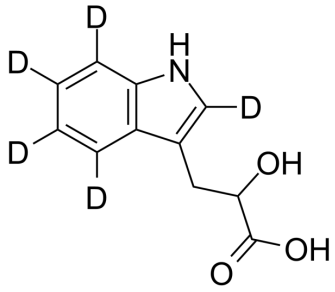
Indolelactic acid-d5

Cat. No.:	HY-113099S
CAS No.:	2470130-19-7
Molecular Formula:	$C_{11}H_6D_5NO_3$
Molecular Weight:	210.24
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Indolelactic acid-d5 (Indole-3-lactic acid-d5) is the deuterium labeled Indolelactic acid. Indolelactic acid is a tryptophan (Trp) catabolite in Azotobacter vinelandii cultures.
In Vitro	Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019;53(2):211-216.

[2]. Francisco García-Tabares, et al. Production of 3-indoleacetic acid and 3-indolelactic acid in Azotobacter vinelandii cultures supplemented with tryptophan. Appl Microbiol Biotechnol.1987 Mar, 25 (6):502–506.

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